

**(19) World Intellectual Property  
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## PCT

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The diagram illustrates a medical device for blood treatment. A patient (8) is connected to a dialyzer (1) via a line (9). The dialyzer (1) consists of two chambers (2a, 2b) separated by a membrane (2). The patient's blood flows through the dialyzer and is then pumped back to the patient. The dialyzer is connected to a blood source (7) and a waste line (3). A pump (33) and a filter (34) are part of the system, with the pump (33) driving the flow of blood through the filter (34) and back to the patient. The filter (34) has an upward arrow indicating the direction of flow. The waste line (3) is connected to the dialyzer (1) and leads to a waste container (3).

**(57) Abstract:** A description is given of an infusion device for medical use, comprising a container (4) designed to hold a specified quantity of a liquid to be infused into a patient, a weighing device (7) associated for operation with the container to measure the weight of the container and emit a corresponding control signal, a transport line (2) connected to the container, a pump (9) and a control unit (8) associated with the weighing device and with the pump. The control unit is capable of detecting the end of infusion condition and of commanding the pump to stop the transport of fluid. A separator (10) for continuously separating fluid into a gaseous portion and a liquid portion operates in the infusion line downstream of the pump and prevents the infusion of gas during the stopping transient of the pump at the end of infusion.

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